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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/770,520	02/04/2004	Tomohiro Saito	05225.0259	1739
7:	590 08/06/2004		EXAMINER	
Finnegan, Henderson, Farabow,		EVERHART, CARIDAD		
Garrett & Dunr 1300 I Street, N			ART UNIT	PAPER NUMBER
	C 20005-3315		2825	

DATE MAILED: 08/06/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)	
Office Action Summary	10/770,520	SAITO ET AL.	
omec Action Cummary	Examiner	Art Unit	لها
71 11411 110 5 4 7 5 4 4 4	Caridad M. Everhart	2825	5
Period for Reply	lication appears on the cover sheet with	the correspondence address	
A SHORTENED STATUTORY PERIOD F THE MAILING DATE OF THIS COMMUN - Extensions of time may be available under the provisions after SIX (6) MONTHS from the mailing date of this comr - If the period for reply specified above is less than thirty (3 - If NO period for reply is specified above, the maximum st - Failure to reply within the set or extended period for reply Any reply received by the Office later than three months earned patent term adjustment. See 37 CFR 1.704(b).	ICATION. s of 37 CFR 1.136(a). In no event, however, may a rej nunication. s0) days, a reply within the statutory minimum of thirty atutory period will apply and will expire SIX (6) MONT or will, by statute, cause the application to become ABA	oly be timely filed (30) days will be considered timely. 15 from the mailing date of this communication. NDONED (35 U.S.C. § 133).	
Status			
1) Responsive to communication(s) file	ed on		
2a) ☐ This action is FINAL .	2b)⊠ This action is non-final.		
	for allowance except for formal matte ce under <i>Ex parte Quayle</i> , 1935 C.D.	•	
Disposition of Claims			
4) ⊠ Claim(s) <u>1-18</u> is/are pending in the a 4a) Of the above claim(s) is/a 5) ⊠ Claim(s) <u>3-5,9,12,14,16 and 18</u> is/ar 6) ⊠ Claim(s) <u>1,2,6,8,11,13,15 and 17</u> is/ 7) ⊠ Claim(s) <u>7 and 10</u> is/are objected to 8) □ Claim(s) are subject to restrict	re withdrawn from consideration. re allowed. fare rejected.		
Application Papers			
9)☐ The specification is objected to by th	e Examiner.		
10) The drawing(s) filed on is/are:	a) accepted or b) objected to b	the Examiner.	
Applicant may not request that any obje	ction to the drawing(s) be held in abeyanc	e. See 37 CFR 1.85(a).	
Replacement drawing sheet(s) including 11) The oath or declaration is objected to	the correction is required if the drawing(so by the Examiner. Note the attached	• •	
Priority under 35 U.S.C. § 119			
2. Certified copies of the priority3. Copies of the certified copies	documents have been received. documents have been received in Ap of the priority documents have been re nal Bureau (PCT Rule 17.2(a)).	olication No eceived in this National Stage	
Attachment(s)			
1) Motice of References Cited (PTO-892)	4) 🔀 Interview Su		
 Notice of Draftsperson's Patent Drawing Review (PB) Information Disclosure Statement(s) (PTO-1449 or Paper No(s)/Mail Date 	TO-948) Paper No(s)/	Mail Date. <u>07282004</u> . Irmal Patent Application (PTO-152)	

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Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

- 1. Determining the scope and contents of the prior art.
- 2. Ascertaining the differences between the prior art and the claims at issue.
- 3. Resolving the level of ordinary skill in the pertinent art.
- 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

Claims 1,2,6,8,11,13,15, and 17 are rejected under 35 U.S.C. 103(a) as being unpatentable over Bashir, et al. (US 5,827,762) in view of Weiner (US 5,569,624).

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Bashir et al discloses the steps of Forming element isolation regions shown in Fig. 1(a) as field oxide regions. Gate oxide is also shown in Fig. 1(a). an impurity doped tungsten silicide layer is formed (col. 4, lines 36-50). The layer is patterned to form gates, and the source and drain regions are formed using the gates as mask((col. 5, lines 10-18). The gates also have sidewall spacers formed(Fig. 1(e)). Fig. 1(e) also shows extension regions formed.

Bashir et al is silent with respect to the irradiation step.

Weiner discloses that in the implantation of a metal silicide layer laser energy can be used to drive the implantation into the silicide(col. 5, lines 13-22).

It would have been obvious to one of ordnary skill in the art at the time of the invention to have used an irradiating step in the process taught by Bashir et al as taught by Weiner in order to drive the impurity to the portion of the silicide where it is desired.

Allowable Subject Matter

Claims 3-5, 9, 12, 14,16,18 are allowed.

Claims 7, and 10 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Caridad M. Everhart whose telephone number is 571-272-1892. The examiner can normally be reached on Monday through Fridays 7:30-4:00.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Matthew S. Smith can be reached on 571-272-1907. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

CARIDAD EVERHART PRIMARY EXAMINER

C. Everhart 6-28-2004